

Report No.:	TW2503147-01E
Applicant:	Shenzhen IDH Industrial Co., Ltd.
Product:	Wireless Speaker
Model No.:	Н5
Trademark:	N/A
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	

Terry long

Terry Tang

Manager

Dated:

March 24, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name:SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le
Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on Filethe Federal Communications Commission – United SatesRegistration:: 744189For 3m Ane:: Chamber

1.2 Applicant Details

Applicant:Shenzhen IDH Industrial Co., Ltd.Address:4 / F, No.1, Xinfang street, Guanlan No.6 Industrial Zone, Longhua New District, Shenzhen

1.3 Description of EUT

r r	
Product:	Wireless Speaker
Manufacturer:	Shenzhen IDH Industrial Co., Ltd.
Address:	4 / F, No.1, Xinfang street, Guanlan No.6 Industrial Zone, Longhua New
	District, Shenzhen
Trademark:	N/A
Model Number:	H5
Rating:	Input: DC5V/1A
Battery:	DC3.7V, 800mAh Li-ion battery
Serial No.:	H520250215001B
Hardware Version:	H5(NTC)MAIN-V2.1
Software Version:	YDF_H5_AC6965A(SDK170)_H5_D7AC-AD2785DD_202411071542(Ver5.4)
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, JI/4DQPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain -0.58dBi maximum (Get from the antenna specification)

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration

2025-03-14 to 2025-03-24

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy - Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version	
EZ-EMC	Ver.EMC-CON 3A1.1	

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.



The EUT has been tested according to the following specifications:

3.0 Technical Details

3.1 Summary of test results

The EOT has been rested according to the following specifications.				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies	

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

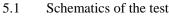
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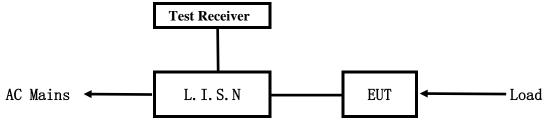
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5.0 Power Line Conducted Emission Test



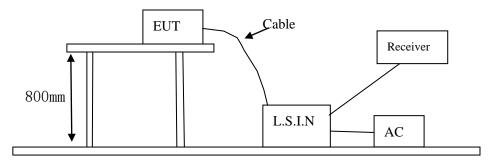


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A.	EUT
11.	LUI

Device	Manufacturer	Model	FCC ID
Wireless Speeker	Shenzhen IDH Industrial	H5 2BN8X-H5	
Wireless Speaker	Co., Ltd.	пэ	2DIN0A-113

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A;
			Output: DC5V, 3A; DC9V, 3A; DC12V,
			3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00~\sim~30.00$	60.0	50.0	

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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A:



Conducted Emission on Live Terminal (150kHz to 30MHz) **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 25 ℃ EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu∀ 80 70 CE-Class B QP FCC Part15 60 AVe Fſ 50 40 30 pea 20 MAVG 10 0 -10 -20 0.150 0.30 0.50 0.80 (MHz) 6.0 30.000 4.0 9.0 Frequency Reading Factor Level Limit Margin Detector No. P/F (MHz) (dBuV) (dB)(dBuV) (dB) (dBuV) 1 0.2241 30.43 10.33 40.76 62.67 -21.91 QP Ρ 2 0.2241 21.46 31.79 -20.88 AVG Ρ 10.33 52.67 3 Ρ 0.5985 30.04 10.43 40.47 56.00 -15.53 QP 4 0.5985 25.98 10.43 36.41 -9.59 AVG Ρ 46.00 5 2.3262 Ρ 28.70 11.44 40.14 56.00 -15.86 QP 6 2.3262 20.93 11.44 32.37 -13.63 AVG Ρ 46.00 7 16.22 Ρ 19.1655 30.46 46.68 60.00 -13.32 QP 8 19.1655 20.15 16.22 36.37 50.00 -13.63 AVG Ρ

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B:



Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25℃ Atmospheric Pressure: 101 kPa Humidity: 65%RH EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu∀ 80 70 FCC Part15 CE-Class B QP 60 AVe Class 50 40 30 pea 20 AVG 10 0 -10 -20 0.150 0.30 0.50 (MHz) 30.000 0.80 4.0 6.0 9.0 Frequency Reading Factor Level Limit Margin Detector P/F No. (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 0.2202 30.13 10.33 40.46 -22.35 Ρ 1 62.81 QP Р 2 0.2202 23.09 10.33 33.42 52.81 -19.39 AVG 3 0.5751 25.49 10.42 35.91 56.00 -20.09 QP Ρ 0.5751 Ρ 4 20.02 10.42 30.44 46.00 -15.56 AVG 5 24.79 10.64 35.43 QP Ρ 1.1718 56.00 -20.57 Ρ 6 1.1718 10.64 25.39 AVG 14.75 46.00 -20.61 19.2084 29.40 16.23 45.63 60.00 -14.37 QP Ρ 7 8 19.2084 16.23 Ρ 19.79 36.02 50.00 -13.98 AVG

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6 Radiated Emission Test

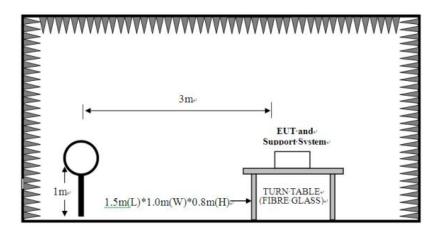
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
Above IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

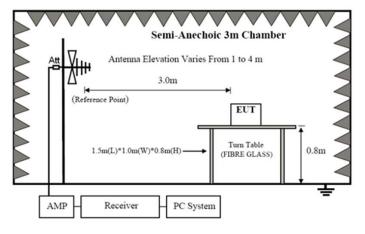


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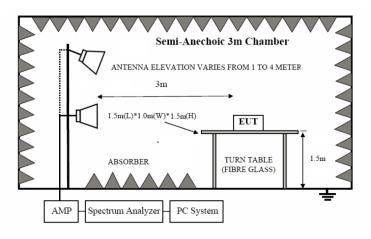
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Α	FCC Part 15	Subpart C Para	graph 15.249(a) Limit	
		T : 110	1 2 5 1	1 (2)	TU 1 1

Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field S	trength of Harmonics (3m)
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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2	400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	$= 20 \log \text{RF Volt}$	age (uV)			

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

1	1	81
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log \text{RF}$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

6. Battery was fully charged during test

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100

100

Horizontal

Horizontal

Pass

Pass

284.00

269.00

6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal

2402

4802.799

91.34

50.02

-3.57

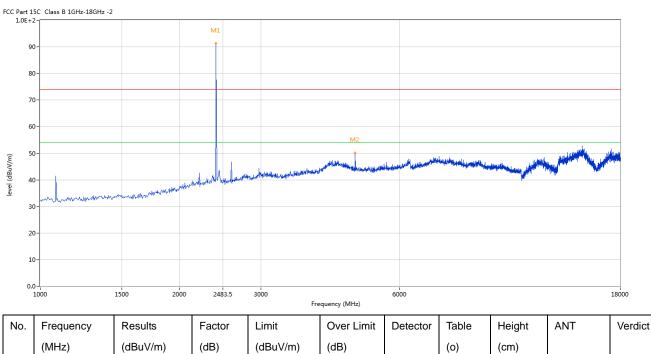
3.12

114.0

74.0

1

2



-22.66

-23.98

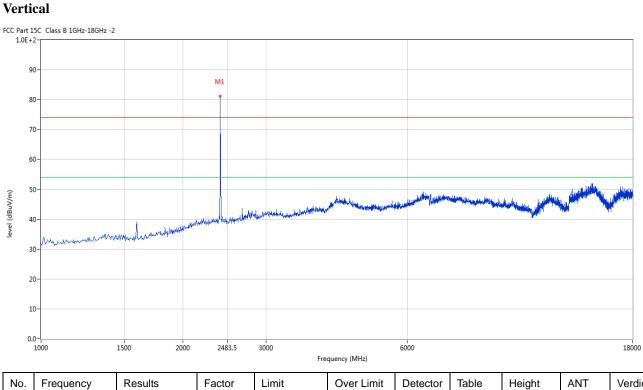
Peak

Peak

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	81.11	-3.57	114.0	-32.89	Peak	307.00	100	Vertical	Pass

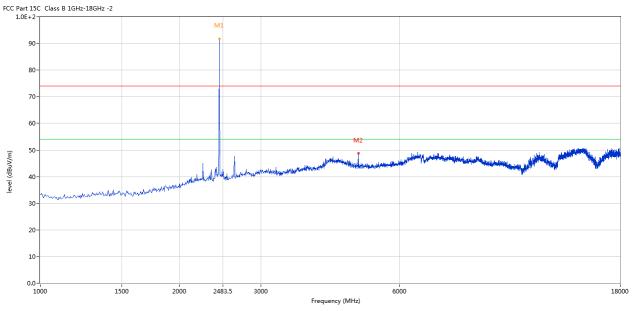
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.63	-3.57	114.0	-22.37	Peak	282.00	100	Horizontal	Pass
2	4883.529	50.78	3.20	74.0	-23.22	Peak	292.00	100	Horizontal	Pass

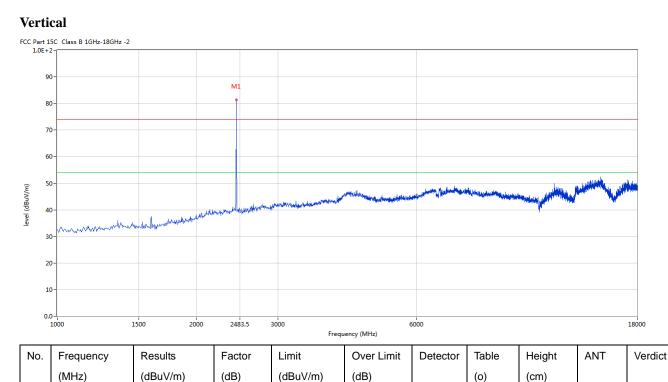
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2441

1





-3.57

81.41

114.0

-32.59

310.00

100

Vertical

Pass

Peak

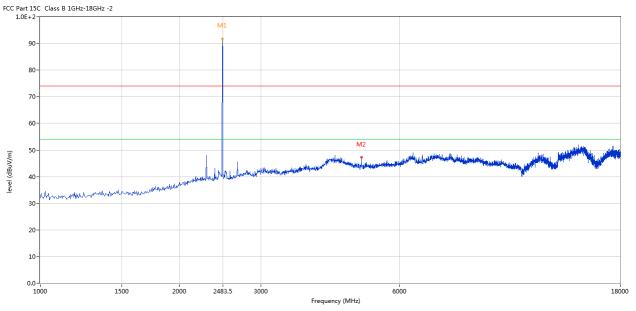
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

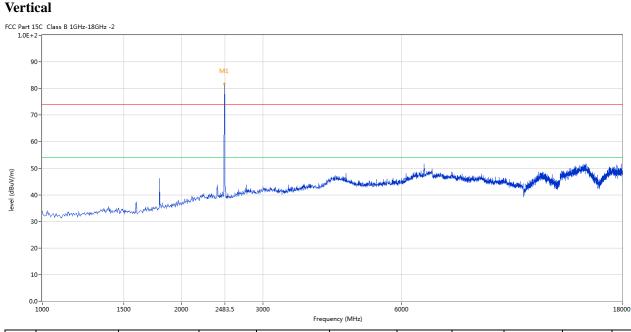


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.67	-3.57	114.0	-22.33	Peak	287.00	100	Horizontal	Pass
2	4960.010	47.20	3.36	74.0	-26.80	Peak	226.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	81.72	-3.57	114.0	-32.28	Peak	131.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

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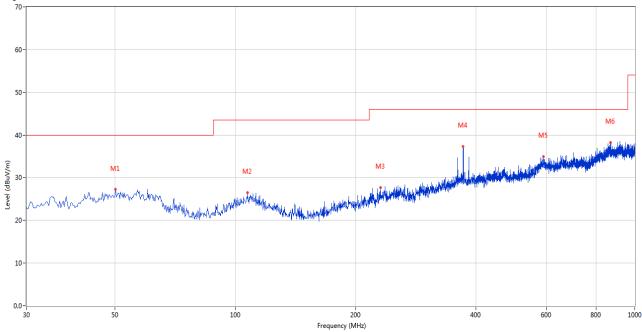
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	50.122	27.22	-5.17	40.0	12.78	Peak	45.00	100	Horizontal	Pass
2	107.338	26.47	-6.07	43.5	17.03	Peak	197.00	100	Horizontal	Pass
3	230.740	27.65	-5.62	46.0	18.35	Peak	295.00	100	Horizontal	Pass
4	371.840	37.32	-1.80	46.0	8.68	Peak	234.00	100	Horizontal	Pass
5	591.247	34.93	1.76	46.0	11.07	Peak	273.00	100	Horizontal	Pass
6	869.810	38.27	5.11	46.0	7.73	Peak	20.00	100	Horizontal	Pass

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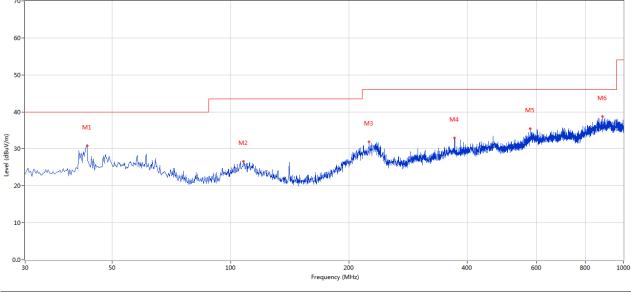
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	43.092	30.85	-5.93	40.0	9.15	Peak	202.00	100	Vertical	Pass
2	107.823	26.58	-6.02	43.5	16.92	Peak	25.00	100	Vertical	Pass
3	224.921	31.94	-6.69	46.0	14.06	Peak	95.00	100	Vertical	Pass
4	371.840	33.00	-1.80	46.0	13.00	Peak	318.00	100	Vertical	Pass
5	578.883	35.51	1.78	46.0	10.49	Peak	330.00	100	Vertical	Pass
6	885.084	38.78	4.91	46.0	7.22	Peak	59.00	100	Vertical	Pass

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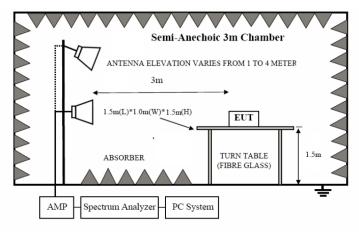


7. Band Edge

7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

	Product:		Wireless	Speaker		Polari	ty		Horizontal	
	Mode	ŀ	Keeping Tra	ansmitting		Test Vol	tage		DC3.7V	
Те	emperature		24 deş	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
CC Part 1.0E+	15C Class B 1GHz-18GHz +2-	-2								
9	90-							M	1	_
;	80-								<u>}</u>	_
:	70-									_
	60-							M2		
								(
BuV/m)	50-					M3				
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level (dBuV/m	40- 	Aldrigantar oler teologiske koletister og	alter og som en som	hijatiidaasiitaanyihtaidayddad	ishekeessakkeessaa keessa k		unanian) Minika	1		, w
level (dBuV/m	40	Andre and an approximate production of the second	ally or a second second second	ingaridaa waxaa wiinta iyoodaad	jubeter sacht of an add sicker	M3	un en fan bielder	1		
level (dBuV/m	40	filden gener of the state of th	684942.0404944449444448444	h i dha an an	quency (MHz)	М3	an a	1		2410
level (dBuV/m	40	Results	Factor	Free Limit	quency (MHz)	Detector	Table	1	ANT	2410 Verdict
level (dBuV/m	40	Results (dBuV/m)	Factor (dB)			in finn finn finn finn finn finn finn f				[
level (dBuV/m	40			Limit	Over Limit	in finn finn finn finn finn finn finn f	Table	Height		[
level (dBu//m	40	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
No.	40	(dBuV/m) 91.21	(dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 17.21	Detector Peak	Table (o) 0.00	Height (cm) 100	ANT Horizontal	Verdict N/A

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1	Product:		Wireless	Speaker		Detect	or		Vertical	
Mode		le Keeping Transmitting				Test Vol	tage	DC3.7V		
Temperature		24 deg. C,				Humid	ity	56% RH		
Te	est Result:		Pas	SS						
C Part 1 1.0E+:	.5C Class B 1GHz-18GHz 2-r	-2								
9										
91	0-							М	1	
8	0-							(LA LA	
70	0-							/	\rightarrow	
6	0-								_\	
-							M4 • M5		<u> </u>	
50	0-							M2	٩	
41	0- 	halan kasala	an a					•		in the state of the
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30 20 10 0.0		idanashailainikanashanashaina	un la dramad la dia dia dia dia dia dia dia dia dia di		requency (MHz)					2410
36 20 10 0.0		Results	Factor			Detector	Table	Height	ANT	2410
36 20 10 0.0			Factor (dB)	F	requency (MHz)		Table (o)	Height (cm)		2410
30 20 10 0.0		Results		F Limit	requency (MHz)			-		2410
31 21 14 0.4 NO.	Frequency (MHz)	Results (dBuV/m)	(dB)	F Limit (dBuV/m)	requency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verdic
31 21 11 0,1 No. 1 2	Frequency (MHz) 2401.902	Results (dBuV/m) 80.74	(dB) -3.57	F Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 6.74	Detector Peak	(o) 283.00	(cm) 100	ANT	2410 Verdic
3/ 2/ 1/ 0.0 No. 1 2 2**	Frequency (MHz) 2400.012	Results (dBuV/m) 80.74 57.90	(dB) -3.57 -3.57	F Limit (dBuV/m) 74.0 74.0	equency (MHz) Over Limit (dB) 6.74 -16.10	Detector Peak Peak	(o) 283.00 283.00	(cm) 100 100	ANT Vertical Vertical	2410 Verdic N/A Pass
31 20 10	Frequency (MHz) 2400.012 2400.012	Results (dBuV/m) 80.74 57.90 42.66	(dB) -3.57 -3.57 -3.57	F Limit (dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 6.74 -16.10 -11.34	Detector Peak Peak AV	(o) 283.00 283.00 283.00	(cm) 100 100 100	ANT Vertical Vertical	2410 Verdic N/A Pass Pass

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Product:		ct: Wireless Speaker			Р	Polarity		Horizontal		
	Mode	1 0 0				Tes	Test Voltage		DC3.7V	
Te	emperature					Humidity		56% RH		
Test Result:		Pass								
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2						1		
	90-		M1							
8	80-									
7	70 -		/							
6	50 -		/	\sim						
ک 2	50-	/								
level (dBuV/m)	50-	WE WANTE APPENDIA		M2	An and a second	en Ul uzharlare egit desetiveze	állafing jelefen egyőden hele yészelektel	a da tanàna dia mandritra dia dia mandritra dia dia dia dia dia dia dia dia dia di	Alternative state and state and state and	the by man star they
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level (dBuV/m 2	40 - <mark>Andrew Marine M 200 -</mark>	*****		M2	A CONTRACTOR OF A CONTRACTOR OFICACIONO OFICONTO OFICIA CONTRACTOR OFICACONTOR OFICIA OFICONTO	n li alvin addisa	alan yan ya ana ya ana ya ana ya		digudadan da analaha galara	t-lijnoss, ke
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level (dBuV/m 5 2 1	40 - <mark>Andrew Marine M 200 -</mark>			M2		n li alvhe an anna	ilinte esta esta esta de anticia	ala da	digenteritation, der näheligeberer	2500
evel (dBuV/m ع ع ع	40 - <mark>2 - 11 - 11 - 11 - 11 - 11 - 11 - 11</mark>	Results	Factor		5	Detector	Table	Height	ANT	2500
evel (dBu//m 3 2 1 0	40 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -		Factor (dB)	2483.	5 Frequency (MHz)					2500
evel (d8r//m 3 2 1	10 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Results		2483.	5 Frequency (MHz)		Table	Height		2500
4 (Mgp) 2 1 0 No.	40 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -	Results (dBuV/m)	(dB)	2483. Limit (dBuV/m)	5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic

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ļ	Product:	act: Wireless Speaker				Detector		Vertical		
	Mode	Keeping Transmitting				Test Voltage			DC3.7V	
Te	emperature	24 deg. C,				Humidity		56% RH		
Τe	est Result:	Pass								_
FCC Part 1 1.0E+	15C Class B 1GHz-18GHz -	2								
ç	90-									
			M1							
8	80 -		- for							
7	70-			\rightarrow						
ε	50 -		1	$ \rightarrow $						
			/	ML M2						
iế i	50-									
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evel (dBu//m 3 2 0.	40 - June	ertenthetelsennethetertenten		2483.5	equency (MHz)	it south for the south of the s	ardanskilkessikillessika	Lid <u>a Hed</u> al Blef dave hver den	aifin hi dene Meroe he	2500
evel (dBu//m 3 2 0.	40 - di yu ala kana da a da alayida 30 - 20 - 10 -	Results	Factor	2483.5		Detector	Table	Height	ANT	
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evel (dBu//m evel (dBu//m 2 1 0.	10 - di yu di tun di hi di yu 30 - 20 - 10 - 2470 Frequency	Results		2483.5 Fre Limit	equency (MHz)		Table	Height		2500

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -0.58dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

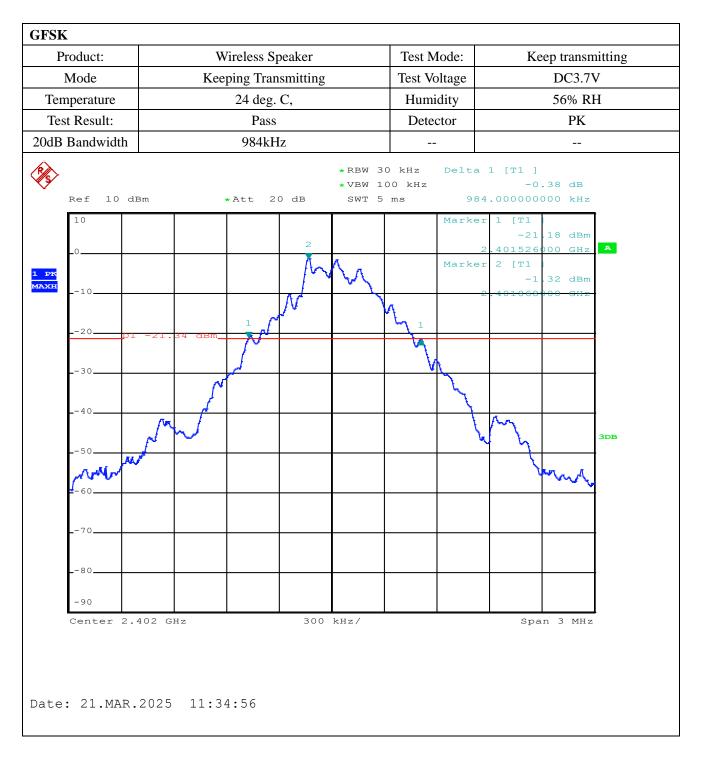
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Test Result

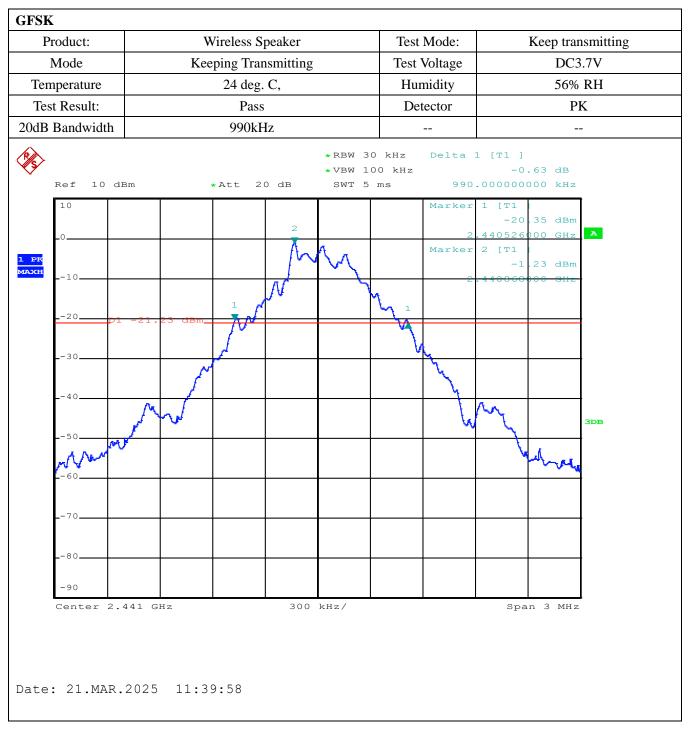


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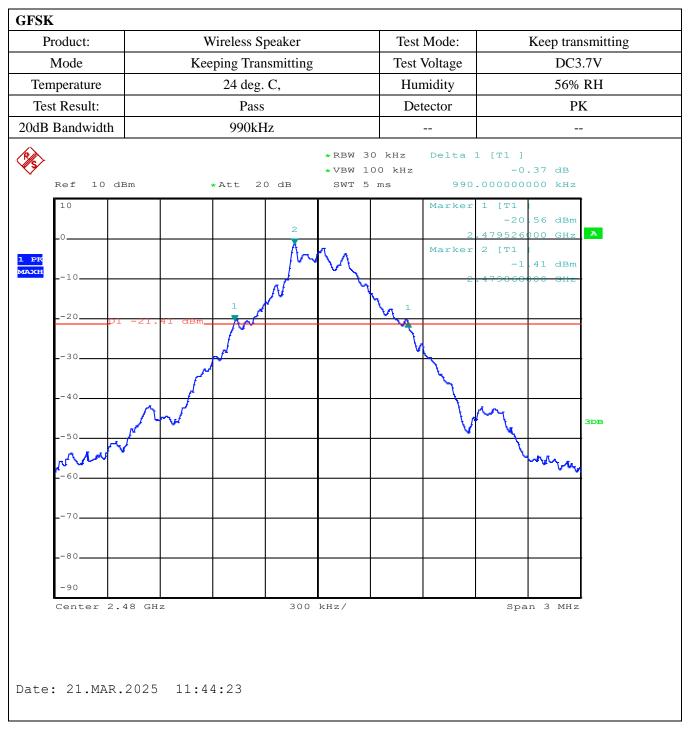




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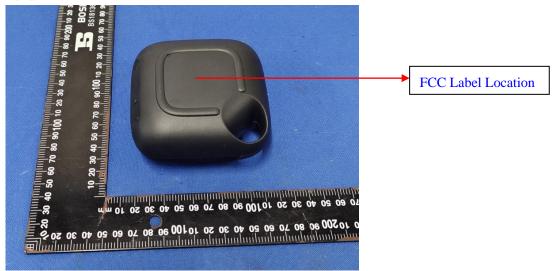


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10.0 FCC ID Label

FCC ID: 2BN8X-H5

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



Mark Location:

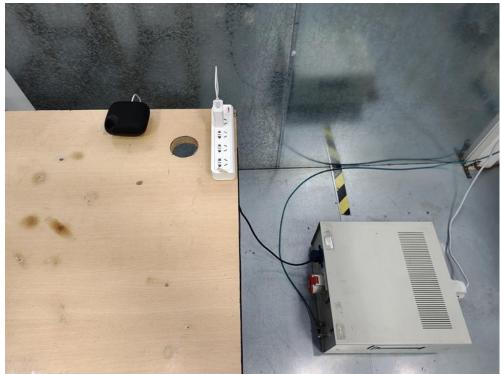
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11.0 Photo of testing

11.1 Conducted test View



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 Radiated emission test view



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Photographs – EUT

11.2

Outside View



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Outside View



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Outside View



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Outside View



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Inside View



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Inside View

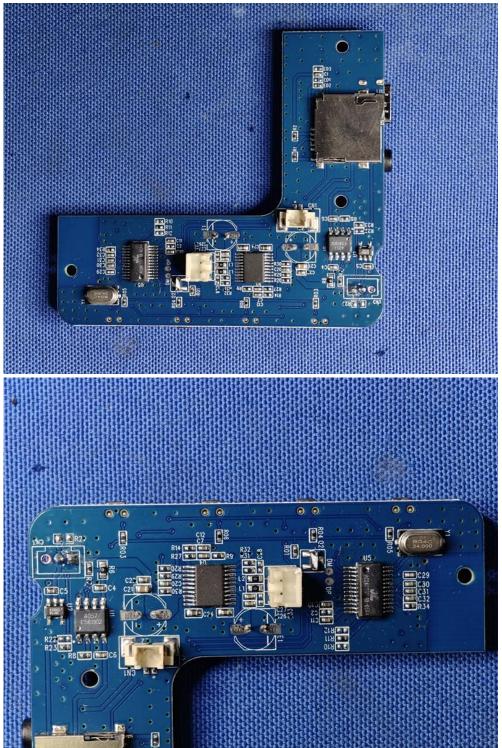


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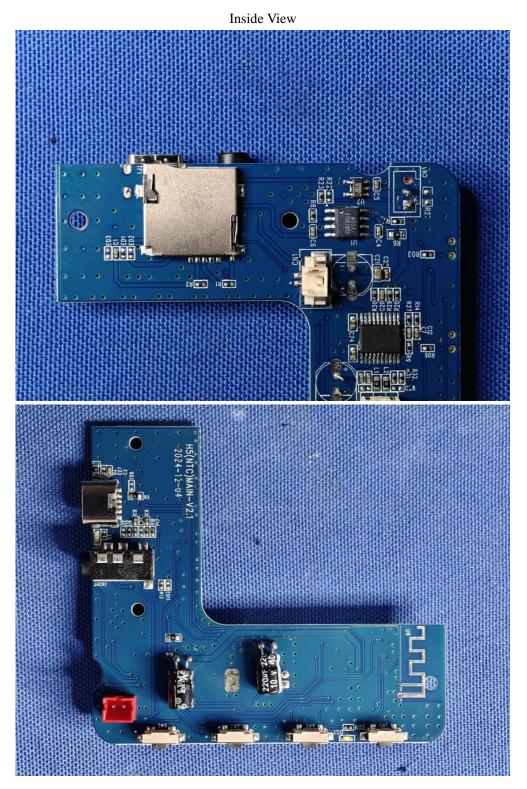
Inside View



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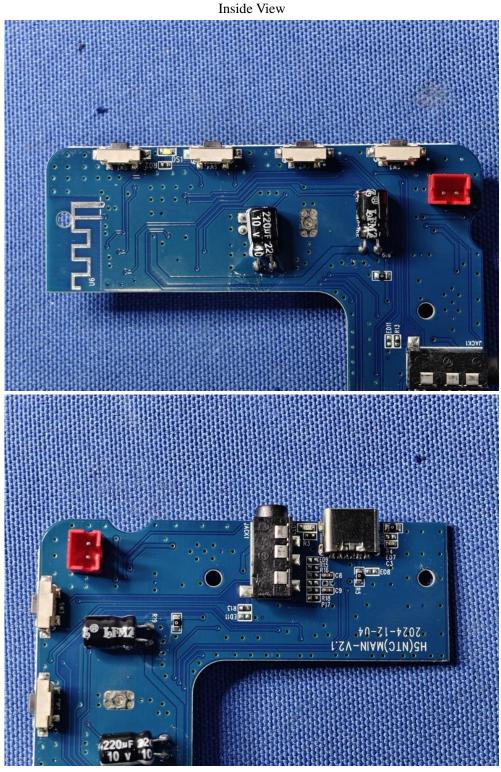




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--End of the report--

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